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(Buildings Geo-Tech & Highway Materials Testing Laboratory)
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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/RL/W.No.17/2020-21

Date: 07.10.2020

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri. R Lokesh,** Contractor, Bangalore.

Name of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17, BBMP, Bangalore.

Sample ID: : Cement (Dalmia 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : September - 2020

Date of Testing : 05.10.2020 to 07.10.2020

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	385 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00%	-

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Job No.: CQCE/BBMP/RL/W.No.17/2020-21 Date : 07.10.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency : **Sri. R Lokesh,** Contractor, Bangalore.
Name of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17, BBMP, Bangalore.

Date of Testing : 07.10.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	8.50	8.50	91.5	90-100
2.36	104	10.40	18.90	81.1	75-100
1.18	187	18.70	37.60	62.4	55-90
600 Micron	236	23.60	61.20	38.8	35-59
300 Micron	172	17.20	78.40	21.6	8-30
150 Micron	155	15.50	93.90	6.1	0-10

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Job No.: CQCE/BBMP/RL/W.No.17/2020-21

Date : 07.10.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri. R Lokesh,** Contractor, Bangalore.

Name of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17, BBMP, Bangalore.

Date of Testing : 07.10.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	215	1.43	1.43	98.57	95-100
20	8442	56.28	57.71	42.29	30-70
10	3154	21.03	78.74	21.26	10-35
4.75	2564	17.09	95.83	4.17	0-5

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Job No.: CQCE/BBMP/RL/W.No.17/2020-21

Date : 07.10.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency : **Sri. R Lokesh,** Contractor, Bangalore.
Name of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17, BBMP, Bangalore.

Date of Testing : 07.10.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	244	4.9	4.9	95.1	95-100
10	2854	57.1	62.0	38.0	25-55
4.75	1742	34.8	96.8	3.2	0-10

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Job No.: CQCE/BBMP/RL/W.No.17/2020-21

Date : 07.10.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency : **Sri. R Lokesh,** Contractor, Bangalore.
Name of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17, BBMP, Bangalore.

Date of Testing : 07.10.2020
Material : Sand(Masonry)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	16	1.60	1.60	98.4	90-100
1.18	38	3.80	5.40	94.6	70-100
600 Micron	82	8.20	13.60	86.4	40-100
300 Micron	265	26.50	40.10	59.9	5-70
150 Micron	482	48.20	88.30	11.7	0-15

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Job No.: CQCE/BBMP/RL/W.No.17/2020-21

Date : 07.10.2020

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri. R Lokesh,** Contractor, Bangalore.

Name of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17, BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm," TMT"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 07.10.2020

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.395	504	607	1.20	14
2	TMT	10	0.618	529	613	1.16	18

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Job No.: CQCE/BBMP/RL/W.No.17/2020-21

Date: 30.11.2020

KERB STONE (CORE) TEST REPORT

Client	:	Assistant Executive Engineer, Yeshwanthpura Sub Division, BBMP, Bangalore.
Agency	:	Sri. R Lokesh, Contractor, Bangalore.
Name of Work	:	Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	30.11.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	75.00	0.339	2302.02	1.50	0.946	28.60	14.57	15.73	14.88	18.60
2	50.00	78.00	0.358	2337.54	1.56	0.952	27.10	13.80	14.91	14.20	17.75
3	50.00	85.00	0.393	2354.74	1.70	0.968	26.90	13.70	14.80	14.32	17.90

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Job No.: CQCE/BBMP/RL/W.No.17/2020-21

Date: 16.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	
Agency	: **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP.
Name of the work	: **Sri. R Lokesh,** Contractor, Bangalore.
	: Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.11.2020	16.11.2020	8.125	256.1	11.38
2	09.11.2020	16.11.2020	8.136	262.5	11.67
3	09.11.2020	16.11.2020	8.147	267.4	11.88

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Job No.: CQCE/BBMP/RL/W.No.17/2020-21

Date: 16.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP.
Agency	: **Sri. R Lokesh,** Contractor, Bangalore.
Name of the work	: Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.11.2020	16.11.2020	8.162	236.4	10.51
2	09.11.2020	16.11.2020	8.126	249.8	11.10
3	09.11.2020	16.11.2020	8.190	258.1	11.47

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Date: 16.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP,
Agency	: **Sri. R Lokesh,** Contractor, Bangalore.
Name of the work	: Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.11.2020	16.11.2020	8.014	252.1	11.20
2	09.11.2020	16.11.2020	8.159	264.2	11.74
3	09.11.2020	16.11.2020	8.155	269.5	11.98

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Job No.: CQCE/BBMP/RL/W.No.17/2020-21

Date: 18.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP.
Agency	: **Sri. R Lokesh,** Contractor, Bangalore.
Name of the work	: Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.11.2020	18.11.2020	8.102	235.1	10.45
2	11.11.2020	18.11.2020	8.144	245.9	10.93
3	11.11.2020	18.11.2020	8.150	264.5	11.76

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP.
Agency	: **Sri. R Lokesh,** Contractor, Bangalore.
Name of the work	: Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.11.2020	18.11.2020	8.164	236.5	10.51
2	11.11.2020	18.11.2020	8.168	244.8	10.88
3	11.11.2020	18.11.2020	8.124	269.8	11.99

Note:

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Authorised Signatory

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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/RL/W.No.17/2020-21

Date: 18.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP,
Agency	: **Sri. R Lokesh,** Contractor, Bangalore.
Name of the work	: Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.11.2020	18.11.2020	8.121	248.7	11.05
2	11.11.2020	18.11.2020	8.102	265.9	11.82
3	11.11.2020	18.11.2020	8.160	271.6	12.07

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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Job No.: CQCE/BBMP/RL/W.No.17/2020-21

Date: 20.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Yeshwanthpura Sub Division, BBMP,
Agency : Sri. R Lokesh, Contractor, Bangalore.
Name of the work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17, BBMP, Bangalore.

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.11.2020	20.11.2020	8.120	238.9	10.62
2	13.11.2020	20.11.2020	8.166	252.1	11.20
3	13.11.2020	20.11.2020	8.146	269.9	12.00

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP.
Agency	: **Sri. R Lokesh,** Contractor, Bangalore.
Name of the work	: Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.11.2020	20.11.2020	8.013	229.8	10.21
2	13.11.2020	20.11.2020	8.176	249.8	11.10
3	13.11.2020	20.11.2020	8.143	271.1	12.05

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP.
Agency	: **Sri. R Lokesh,** Contractor, Bangalore.
Name of the work	: Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.11.2020	20.11.2020	8.104	239.5	10.64
2	13.11.2020	20.11.2020	8.166	256.8	11.41
3	13.11.2020	20.11.2020	8.108	268.9	11.95

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